

IN THE CLAIMS:

Please amend Claims 1, and 5-11, as follows. A marked-up copy of those claims, showing the changes made thereto, is attached. For the Examiner's convenience, all of the pending claims are presented below.

1. (Amended) A coordinate input apparatus in which light from a designating tool is applied to a prescribed position on a coordinate input screen to produce a beam spot and coordinates corresponding to the beam spot are generated, the apparatus comprising:

a plurality of sensing means, arranged in one coordinate axis, for sensing the beam spot;

correction means for correcting results of sensing from each of said plurality of sensing means;

concatenation means for concatenating data that has been corrected by said correction means; and

output means for outputting coordinate values corresponding to the beam spot based upon the data concatenated by said concatenation means;

wherein portions of areas from which said plurality of sensing means sense light overlap.

2. The apparatus according to claim 1, wherein said correction means corrects the results of sensing from each of said plurality of sensing means based upon reference coordinate values that have been stored in advance.

3. The apparatus according to claim 1, wherein each of said plurality of sensing means is a linear sensor comprising a plurality of optoelectronic transducers arrayed on a straight line.

4. The apparatus according to claim 1, wherein said correction means corrects the results of sensing from each of said plurality of sensing means based upon inclination of second sensing means relative to first sensing means among said plurality of sensing means.

5. (Amended) The apparatus according to claim 1, wherein said correction means corrects the results of sensing from each of said plurality of sensing means based upon a magnification, which is for calculating coordinates, set for each of said plurality of sensing means.

6. (Amended) A coordinate input method in which light from a designating tool is applied to a prescribed position on a coordinate input screen to produce a beam spot and coordinates corresponding to the beam spot are generated, the method comprising:

a correction step of correcting results of sensing from each of a plurality of sensing units, arranged in one coordinate axis, for sensing the beam spot;

a concatenation step of concatenating data that has been corrected at said correction step; and

an output step of outputting coordinate values corresponding to the beam spot based upon the data concatenated at said concatenation step;

wherein portions of areas from which the plurality of sensing units receive light overlap.

7. (Amended) The method according to claim 6, wherein said correction step corrects the results of sensing from each of the plurality of sensing units based upon reference coordinate values that have been stored in advance.

8. (Amended) The method according to claim 6, wherein each of the plurality of sensing units is a linear sensor comprising a plurality of optoelectronic transducers arrayed on a straight line.

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9. (Amended) The method according to claim 6, wherein said correction step corrects the results of sensing from each of the plurality of sensing units based upon inclination of a second sensing unit relative to a first sensing unit among the plurality of sensing units.

10. (Amended) The method according to claim 6, wherein said correction step corrects the results of sensing from each of the plurality of sensing units based upon a magnification, which is for calculating coordinates, set for each of the plurality of sensing units.

11. (Amended) A computer-readable memory storing coordinate-input program code for performing a method in which light from a designating tool is applied to

a prescribed position on a coordinate input screen to produce a beam spot and coordinates corresponding to the beam spot are generated, said program code comprising:

program code of a correction step of correcting results of sensing from each of a plurality of sensing units, arranged in one coordinate axis, for sensing the beam spot;

program code of a concatenation step of concatenating data that has been corrected at the correction step; and

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program code of an output step of outputting coordinate values corresponding to the beam spot based upon the data concatenated at the concatenation step;

wherein portions of areas from which the plurality of sensing units receive light overlap.

Please add new Claim 12, as follows:

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--12. (NEW) The apparatus according to Claim 1, wherein each sensing means of said plurality of sensing means is a sensor comprising a substantially linear array of pixels.--

REMARKS

In view of the above amendments and the following remarks, Applicants request favorable reconsideration and allowance of the above-identified application.

Claims 1-12 are now pending in this application, with Claims 1, 6, and 11 being independent. By this Amendment, Applicant has amended the specification and Claims 1 and 5-11, and added new Claim 12. No new matter has been added.